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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,923	12/15/2005	Ken Maeda	1155-0288PUS1	4358
	7590 12/03/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH 3/A 22040 0747	MESH, GENNADIY		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			12/03/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Application No.	Applicant(s)			
Office Action Summary		10/560,923	MAEDA ET AL.			
		Examiner	Art Unit			
		GENNADIY MESH	1796			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)☑	Pasnonsive to communication(s) filed on 13 Au	iguet 2009				
· ·	Responsive to communication(s) filed on <u>13 August 2009</u> . This action is FINAL . 2b) This action is non-final.					
3)□	<i>,</i> —					
<i>ا</i> ل	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	closed in accordance with the practice under z	x parte Quayle, 1999 O.D. 11, 40	0.0.210.			
Dispositi	on of Claims					
4)🛛	☑ Claim(s) <u>1,3-9 and 11-13</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>1,3-9 and 11-13</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	r election requirement.				
٥,١	and conspect to recurrence and an area					
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

Application/Control Number: 10/560,923 Page 2

Art Unit: 1796

DETAILED ACTION

Applicant's Amendment filed on August 13, 2009 is acknowledged.
 No amendments to claims were presented. Claims 2 and 10 have been cancelled.

Claims 1, 3 - 9 and 11-13 are active. Rejection is maintained as it was set forth in previous Office action mailed on March 13, 2009.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1, 3 - 9 and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hori et al. (US 2002/0193555).

Rejection was adequately set forth in paragraph 2 of preceding Office action mailed on March 13, 2009 and incorporated herein by reference.

Response to Arguments

3. Applicant's arguments filed on August 13, 2009 have been fully considered but they are not persuasive.

Applicant's arguments related to Claims 1, 3 - 9 and 11-13 rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hori et al. (US 2002/0193555) based on following statement:"

... since the titanium compound used as a starting material during preparation of the titanium-containing solution of the present invention is different from that of Hori,

the resulting titanium-containing solution of the present invention is also different from the titanium-containing solution (i.e., second catalyst) of Hori. Thus, Applicants submit that Hori does not teach or suggest a titanium-containing solution as presently claimed".

Page 3

In response for this argument note, that Claim 1 is directed to titanium - containing solution, **prepared by** using a titanium compound, which is a monomeric or polymeric titanium compound...

Thus, Claims 1, 6 and 11 are in product-by-process format claims.

Case law holds that "even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." See *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Because Hori disclosed **titanium containing solution**, comprising same components at same amounts as it claimed by Applicant, than it is clear Hori disclosed **same product as claimed by Applicant.**

Regarding limitations of Claim 6 directed to particle size Applicant argued that

"Applicants respectfully disagree and submit that the dissolution of the titanium

compound into aliphatic diol is not a mere dissolution, but rather involves certain

chemical reactions. As shown by the enclosed excerpt from the Encyclopedia of

Chemical Technology, a high polymerization product in a network-like form is generated

when a titanium compound is contacted with an aliphatic diol and is dissolved or precipitated in the network-like form (see, also, Specification, page 3, lines 10-21). As such, the molecular weight (degree of polymerization) of the titanium compound is not reduced, but rather increased by dissolution".

It should be pointed out, that excerpt on page 464 cited by Applicant, relates to formation of " insoluble white solids, ... being highly crosslinked polymers".

However, titanium compound disclosed by Hori is soluble (see paragraph [0025]), therefore this Applicant's argument is not persuasive.

In addition note, that Applicant did not present any factual data regarding particle size of particles prepared by process, wherein dissolving of particles done in preferable temperature range disclosed by Hori (see paragraph 3 of preceding Office action mailed on March 13, 2009).

At least for reasons above, Applicant's arguments were found unpersuasive.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Page 5

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GENNADIY MESH whose telephone number is (571)272-2901. The examiner can normally be reached on 10 a.m - 6 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272 1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gennadiy Mesh Examiner Art Unit 1796 Application/Control Number: 10/560,923 Page 6

Art Unit: 1796

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796